

Caden Westmoreland

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SKILLS

Server Programming: Ruby on Rails, Python and Django, GoLang, Node, Javascript

Client/Frontend Programming: Next.JS, React, SWR, Cypress, Webpack

Databases: PostgreSQL, Prometheus, InfluxDB, Prisma (JavaScript ORM), ActiveRecord (Rails ORM), GORM (GoLang ORM)

Other: AWS, Heroku, Docker, NGINX, Linux

I've dabbled a bit for fun: Java, Spring, Rust, WASM

SUMMARY

Tenacious software engineer with a proven track record of successfully implementing new value-adding features, enhancing large systems, and building highly functional engineering teams from the ground up at startups.

EXPERIENCE

Software Engineer

Red Canary

September 2022 - January 2023, Denver, CO

- Designed, tested, and implemented event-driven automation features for our customers using Ruby on Rails, React, Redis, Sidekiq, and PostgreSQL. This saved time and effort for our customers as well as our CSMs who managed upwards of a hundred thousand endpoints.
- Integrated our system with third party APIs and products such as: ChurnZero, Slack, PagerDuty, Twilio, Microsoft Defender, CrowdStrike, Carbon Black Cloud, and more.
- Handled and responded to incidents on our engineering pager system.
- Assured quality of features by writing automated unit and integration tests with RSpec, Docker, and CircleCI.
- Tracked and created performance metrics dashboards using Prometheus and Grafana.
- Collaborated in a SCRUM environment with Customer Success Managers, Product Managers, Engineers, and Incident Handlers to carry out projects and proposals.

Software Developer

Sock Club

October 2021 - September 2022, Austin, TX

- Designed and implemented a user portal written with Ruby on Rails, Next.JS, PostgreSQL, Redis, Sidekiq, Heroku, NGINX, and AWS.
- Developed automated sock design software. Automatically fetched brand assets based on the business email of the customer, and generated hundreds of custom sock designs for them to choose from. This reduced the work load on our design team substantially, allowing any given designer to manage a dozen or so deals at once.
- Collaborated with management to grow the Engineering team from two engineers to a product owner, engineering manager, and 5 engineers.
- Interviewed and made the hiring decision for the Product Manager and Software Engineers.
- Introduced SCRUM/Agile methodologies to assist with the management of the new engineering team.
- Mentored and assisted the junior engineers that were hired, brought them up to speed on the system and handed off responsibilities.
- Wrote engineering plan and lead the technical execution of porting our entire Rails/Sprockets frontend to React/Next.JS. Developed and deployed an NGINX reverse proxy to keep everything behind the company domain. Implemented secure and RESTful APIs, using stale-while-revalidate caching patterns to provide a responsive user experience when performing CRUD tasks. Implemented an automated CI/CD pipeline using Cypress, Docker, CircleCI, PostgreSQL, and Rails.
- Wrote engineering plan for and lead the technical execution on implementing an event-driven manufacturing management system, automating production assignment and production tasks between several different manufacturing facilities. Facilitated the manufacturing, shipment, and fulfillment of hundreds of thousands of custom socks. This saved our supply chain team countless hours, allowing a team of 3 to effectively manage the production of hundreds of thousands of socks without adding to the team headcount.
- Wrote engineering plan and lead the execution of creating a 3D sock designer written with React and Three.JS.
- Integrated our entire application to sync with Hubspot to track sales metrics and overall impact of our software on revenue. Created webhooks, cron jobs, and Sidekiq tasks to ensure that our data stayed in sync at all times.

Manufacturing Engineering Intern

Airborn Inc

May 2019 - August 2019, Georgetown, TX

- Created an internal-facing database application using PostgreSQL and Rails to track work orders, floor productivity, and active issues.

- Assisted with management of two production lines with 20+ employees.
- Designed and manufactured tools to make production processes safer and more efficient.

Undergraduate Research Assistant

Texas Petawatt Laser

May 2017 – October 2017, Austin, TX

- Developed a solution using LabVIEW, Python, C++, and National Instruments DAQ devices to remotely control dozens of mirror positions and angles inside of the laser array, accurate to a micrometer.
- Assisted Ph.D students and professors with conducting fundamental research into exotic states of matter with ultra-high energy densities and electromagnetic fields.
- Worked independently of management

PROJECTS

Code Homie

- Utilized OpenAI language models to perform automated Code Review on Github Pull Requests
- Integrated with Github with the Github App API

Automated Trading App

December 2022 – Present

- Creating an event-driven automation framework to allow users to develop their own automated financial trading strategies using Go, Gin, NextJS, PostgreSQL, Redis, InfluxDB, AWS, Vercel, and Docker.
- Users can click-and-drag nodes on an automation playground to develop their asynchronous financial trading strategies.
- Tracks the entire stock market with live-data using server-to-server and server-to-client websocket relays.
- Executes automations with Redis and custom asynchronous job runners written in Golang, which can run in parallel in the cloud.
- Work in progress

EDUCATION

Bachelor of Science in Aerospace Engineering

University of Texas at Austin · Austin, TX · Did not finish, transferred to C.S. in 2020

Bachelor of Science in Computer Science

Minor in Applied Mathematics · Texas State University · San Marcos, Texas · 2021

COURSEWORK

Computer System Security

Texas State University · Research, Network Scanning, Vulnerability Scanning, Attack prevention

Web Development

Texas State University · Design, Research, Programming, Problem Solving
Created a website which showed my skills as a web developer with Python, Flask, HTML and CSS

Developing on AWS

Amazon · 2023 · AWS, Python, REST APIs, JavaScript, S3, EC2, MongoDB